

Michigan ITS Center

Serving the Southeast Michigan Freeways

www.michigan.gov/its

October 2008



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The Michigan ITS Center monthly performance measure report has undergone a complete overhaul including an entire redesign and a new technology platform – Crystal Reports. This section of the new report will spotlight data trends, system upgrades, Michigan ITS Center initiatives, and other interesting information.

In the Spotlight

Compiled by:
URS

Summary

Data Key

Oct 2008

Call Card



Total Assists

Freeway Courtesy Patrol (FCP) fill out information on data cards at each stop (abandoned vehicles), assist (occupied vehicles, debris, accidents, etc.) and tow.

3,949

Call Tracking



Total Calls

Operators manually enter all incoming and outgoing Control Room calls, including two-way communications, select Michigan State Police (MSP) Computer Aided Dispatch (CAD) entries, and high-impact incident notifications.

5,004

DRIVE Web site



Total Requisitions

Operators inform media and general public about current incident information regarding lane closures, road construction, and real-time camera images.

642,709

ATMS



Total Incidents

Data is entered into the Advanced Traffic Management System (ATMS) in order to send messages to the Dynamic Message Signs (DMS) and to post incidents to the Web site.

434

QA/QC



All High-impact Incidents

Comprehensive and systematic quality assurance/quality control audit of freeway operations including messaging and High-impact notifications (freeway closures, lane closures where only one lane is open and freeway to freeway ramp closures).

92.3%

MaintStar



System Availability

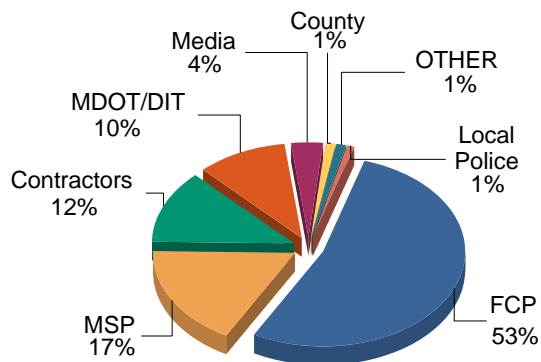
MaintStar manages maintenance issues for all Intelligent Transportation System (ITS) equipment including Dynamic Message Signs (DMS) and Closed-circuit Television (CCTV) cameras and tracks work orders and overall ITS performance.

DMS: 95%
CCTV: 93%

Compiled by:

URS

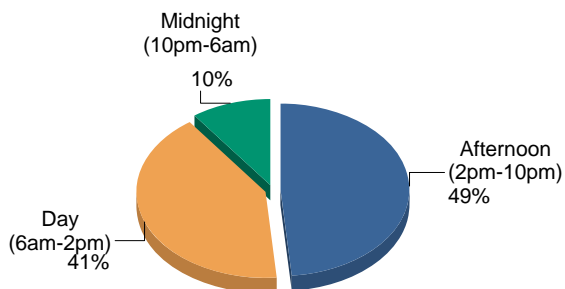
Calls by Type



Total Calls: 5,004

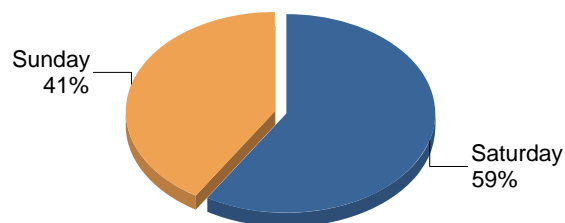
Agency	No. of Calls	INCOMING	OUTGOING
FCP	2657	2621	36
Contractors	621	207	414
City	3	1	2
County	59	18	41
Federal	0	0	0
Fire	1	0	1
Local Police	42	29	13
MSP	864	809	55
Border	1	1	0
MDOT/DIT	519	160	359
Media	176	141	35
Special Events	2	2	0
Transit	1	0	1
Parking	0	0	0
Airport	2	0	2
Animals	2	1	1
OTHER	54	34	20
Total	5,004	4,024	980

Calls by Weekday Shift



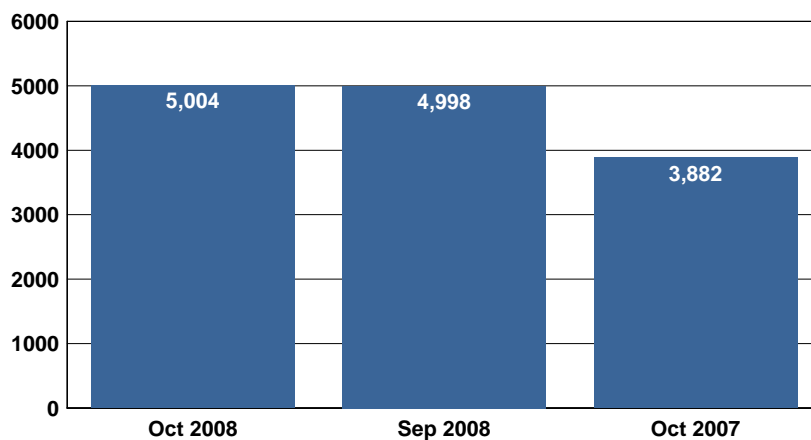
**Average number of
Calls per Weekday: 182**

Calls by Weekend Day



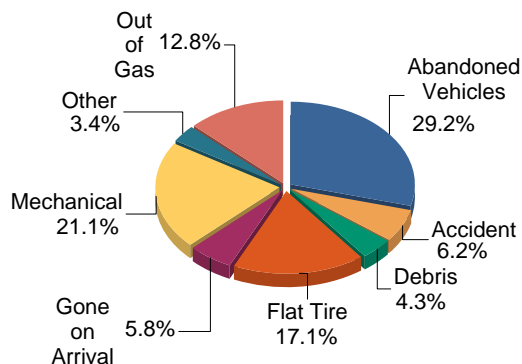
**Average number of
Calls per Weekend: 213**

Monthly Event History



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FCP Assist Type

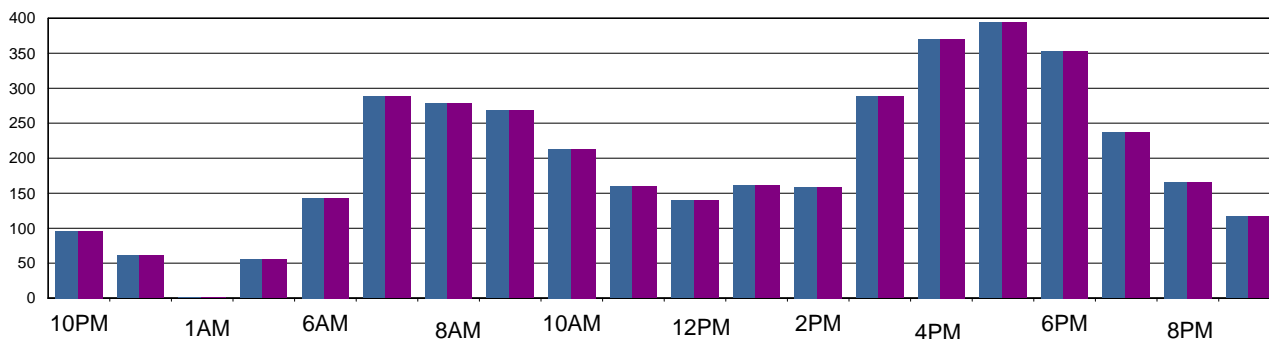


October Total: 3,949

2,796 Assists

1,153 Stops

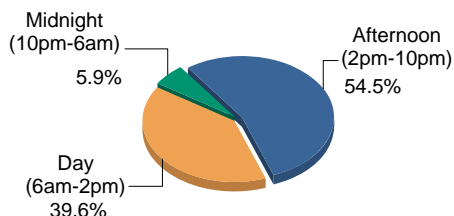
FCP Assists by Time of Day



* FCP coverage hours adjusted for Gateway Project, no scheduled coverage from 12 AM to 5 AM.

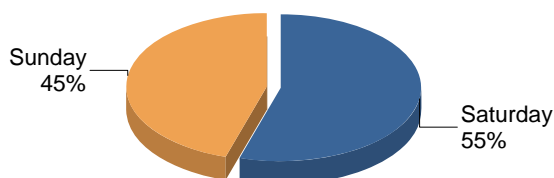
Monthly Fiscal
 Monthly (assists/hour) Year-to-Date (FYTD)
 Average (assists/hr)

FCP Dispatches by Weekday Shift



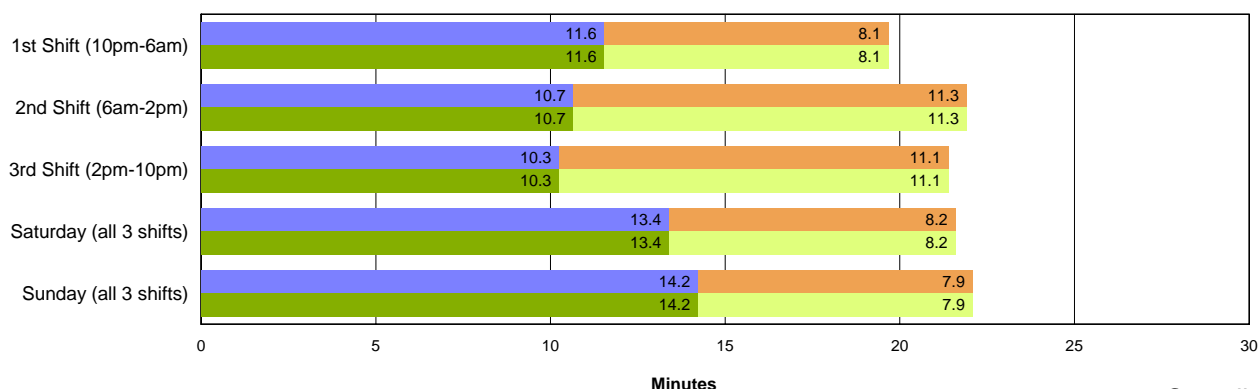
Average Number of Dispatches per Weekday: 28

FCP Dispatches by Weekend Day



Average Number of Dispatches per Weekend: 34

FCP Average Service Times



Average Response Times Monthly FYTD Average Response Times Average Clear Times Monthly FYTD Average Clear Times

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Courtesy
Patrol





Motorist Quote of the Month

"MDOT's Freeway Courtesy Patrol is the motorists' Guardian of the Metro Detroit freeways. I know, because I became stranded early this morning (10-15-08) on I-94 at the Haggerty Road exit. I said to myself, 'LORD, now what do I do?' I looked up from my tire-less rim and there was the Freeway Courtesy Patrol driver. He said, 'Can I help you? I'm with MDOT Freeway Courtesy Patrol.' — Wow! — I couldn't believe it; I felt the presence of a Guardian Angel. His courteous service was the perfect answer to my prayer. My thanks to MDOT's Freeway Courtesy Patrol."

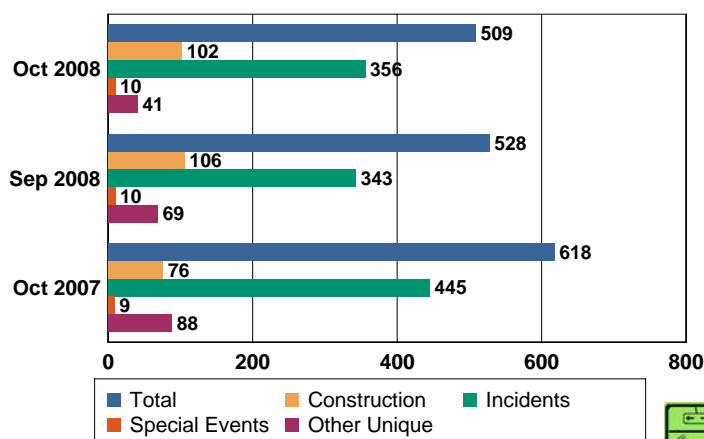
Freeway	Segment	TOTAL ASSISTS (miles)	ASSIST DENSITY		AVERAGE RESPONSE TIME (min)		AVERAGE CLEAR TIME (min)	
			Oct 2008	FYTD Avg.	Oct 2008	FYTD Avg.	Oct 2008	FYTD Avg.
I-75	Oak. Co. Line to I-696	37.0	379	379	10.2	10.2	20.4	20.4
	I-696 to I-94	8.0	223	223	27.9	27.9	8.0	8.0
	I-94 to I-96	5.6	53	53	9.5	9.5	9.4	9.4
	I-96 to I-275	37.0	161	161	4.4	4.4	12.4	12.4
		87.6	816	816	9.3	9.3	13.9	13.9
I-94	Wash. Co line to M-39	20.7	337	337	16.3	16.3	11.3	11.3
	M-39 to I-75	9.0	310	310	34.4	34.4	9.5	9.5
	I-75 to I-696	10.0	292	292	29.2	29.2	10.3	10.3
	I-696 to St. Clair Co. Line	21.0	142	142	6.8	6.8	11.4	11.4
		60.7	1,081	1,081	17.8	17.8	10.2	10.2
I-96	Liv. Co. Line to I-275/I-696	11.0	139	139	12.6	12.6	13.2	13.2
	I-275/M-14 to M-39	12.0	140	140	11.7	11.7	10.5	10.5
	M-39 to I-75	11.0	251	251	22.8	22.8	11.3	11.3
		34.0	530	530	15.6	15.6	11.6	11.6
I-275	I-96/I-696 to M-14/I-96	8.0	99	99	12.4	12.4	11.3	11.3
	M-14/I-96 to I-94	12.0	173	173	14.4	14.4	11.0	11.0
	I-94 to I-75	17.5	71	71	4.1	4.1	11.7	11.7
		37.5	343	343	9.1	9.1	11.2	11.2
I-696	I-96/I-275 to M-10	9.3	121	121	13.0	13.0	11.8	11.8
	M-10 to I-75	9.0	143	143	15.9	15.9	10.1	10.1
	I-75 to I-94	10.4	228	228	21.9	21.9	9.1	9.1
		28.7	492	492	17.1	17.1	10.2	10.2
I-375		1.2	11	11	9.2	9.2	8.0	8.0
	M-10 (Lodge)	17.9	345	345	19.3	19.3	9.3	9.3
	M-14	6.4	46	46	7.2	7.2	11.5	11.5
	M-39 (Southfield)	14.2	189	189	13.3	13.3	11.5	11.5
	M-5 (Grand River)	10.3	47	47	4.6	4.6	12.3	12.3
	M-8 (Davison)	2.2	49	49	22.3	22.3	3.6	3.6
Total		300.7	3,949	3,949				



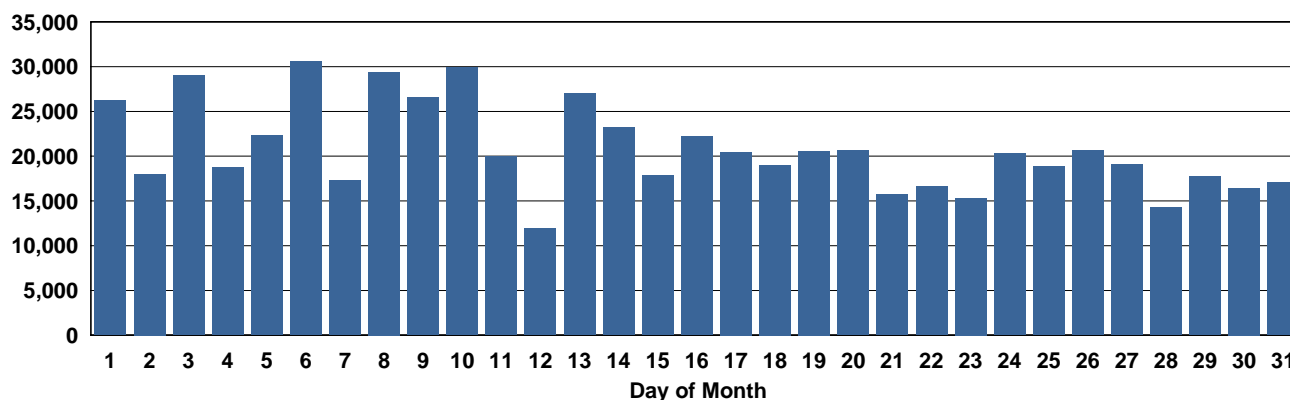
Top 5 DMS with Unique Messages

1. I-75 SB South of 13 Mile
2. M-10 NB at Porter
3. I-696 EB at Manistee
4. I-94 EB at Central
5. I-696 WB at Ryan

Unique DMS Messages by Type

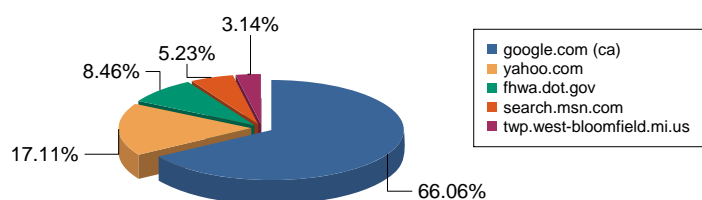


DRIVE Web site Daily Requests



Top 5 Recurring Site Requests to DRIVE Web site

In **October**, the DRIVE Web site experienced the most activity on **Fridays**.



On an average day in **October**, the DRIVE Web site received the most hits during the **4:00 P.M.** hour.

**Does not include Michigan.gov requests.

Incident Communication Accuracy

Weekend DMS Snapshot Review			
	Oct 2008	Sep 2008	Oct 2007
All Incident Messages	99.7%	99.5%	100.0%
High Impact DMS Messages			
	Oct 2008	Sep 2008	Oct 2007
All High Impact Messages	100.0%	96.2%	98.2%
Freeway Closure Messages	100.0%	91.7%	92.9%
Lane Closure Messages	100.0%	96.9%	100.0%
Ramp Closure Messages	100.0%	100.0%	100.0%
Other Communication			
	Oct 2008	Sep 2008	Oct 2007
Advisory Text-Messages	98.0%	94.2%	93.0%
Web site Incident Postings	100.0%	100.0%	100.0%

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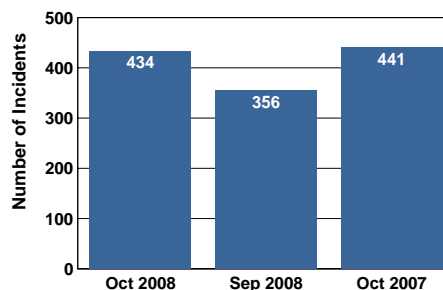


Total Incidents by Roadway

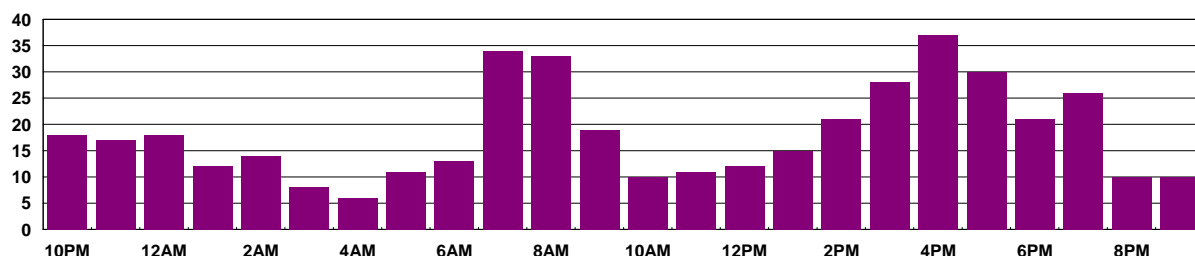


Freeway	Oct 2008	Sep 2008	Oct 2007
I-75	89	84	114
I-94	115	86	84
I-696 (Reuther)	70	51	79
I-96	50	30	49
M-10 (Lodge)	40	34	24
M-39 (Southfield)	35	38	46
I-275	34	33	43
I-375	1	0	1
M-59	0	0	1
Total	434	356	441

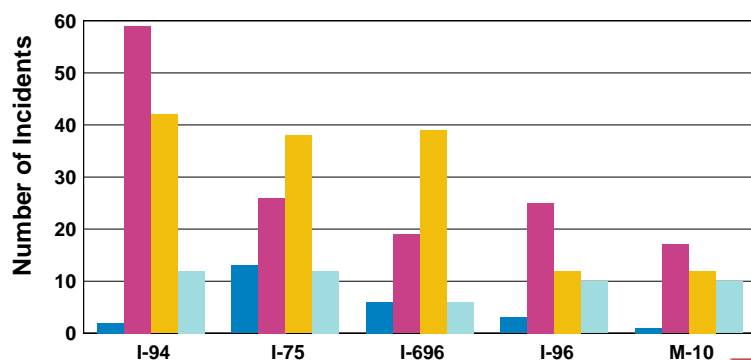
Total Number of Incidents



Total Incidents per Hour

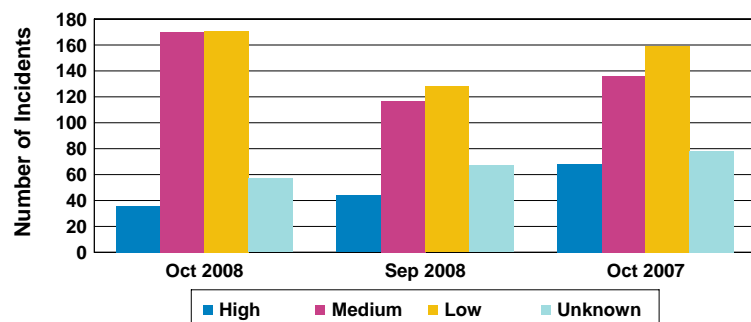


Severity/Duration by Top 5 Freeways



- Single lane closure equal to 90+ minutes, partial closure (more than one lane, but not all) equal to 45+ minutes, or total closure (all lanes) 20+ minutes
- Only shoulder closures equal to 90+ minutes, single lane closures between 20 and 89 minutes, partial closure (more than one lane but not all) between 20 and 44 minutes, and total closure (all lanes) less than 20 minutes
- Only shoulder closures less than 90 minutes, single lane closure or partial closure (more than one lane, but not all) less than 20 minutes
- The duration and/or severity is unknown

Total Incident Severity/Duration by Month



High-impact Incident Activity



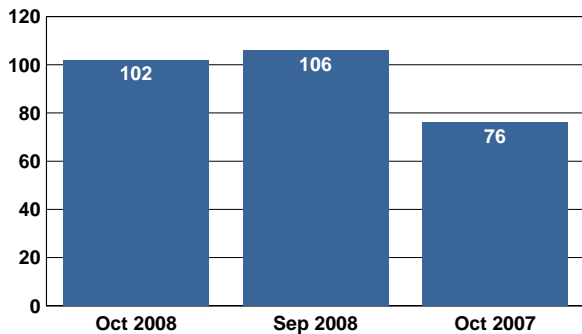
	Oct 2008	Sep 2008	Oct 2007
Freeway Closures	12	12	14
Lane Closures	38	32	38
Ramp Closures	3	8	5
Total	53	52	57

High-impact Incidents account for **12%** of the Total Incidents for the month of October.

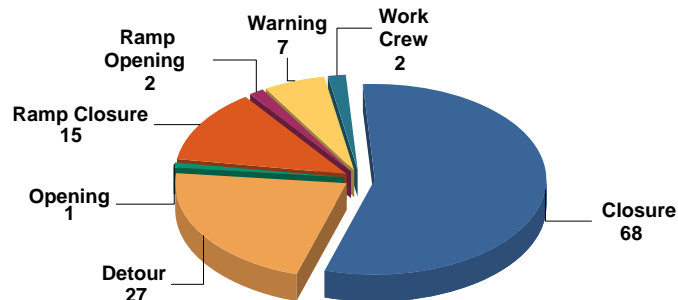
Compiled by:
URS



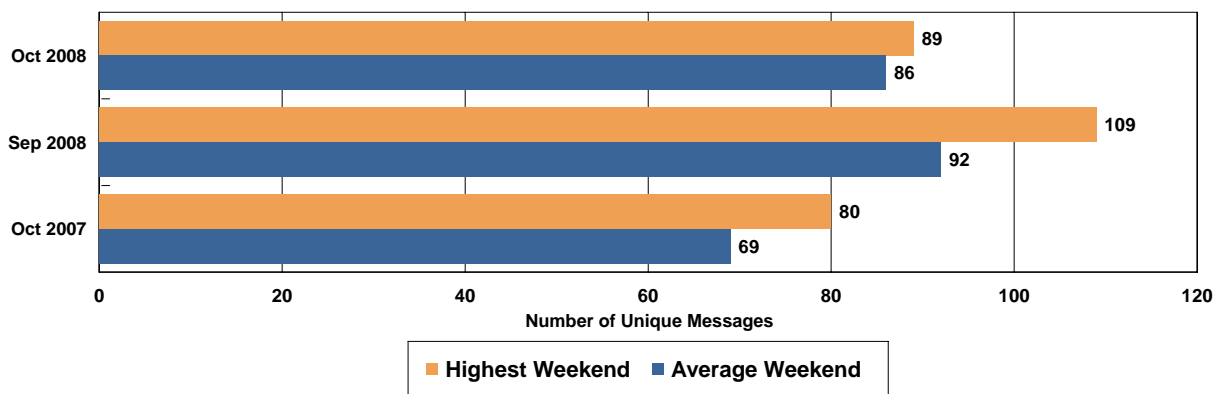
Total Unique Message Count



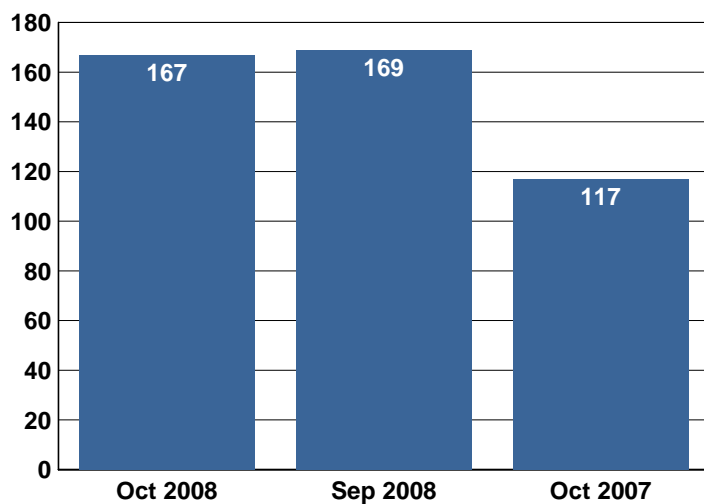
Highest Weekend Unique Message Count



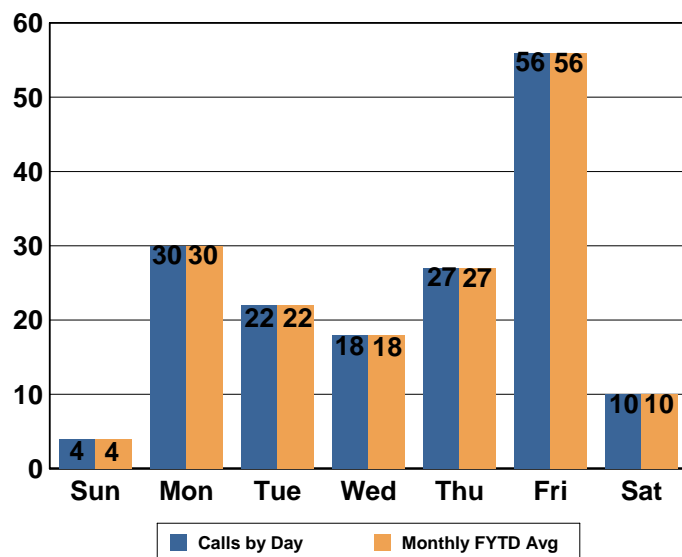
Weekend Construction DMS Message Activity



Total Construction Calls per Month



Construction Calls by Day



Construction Activity



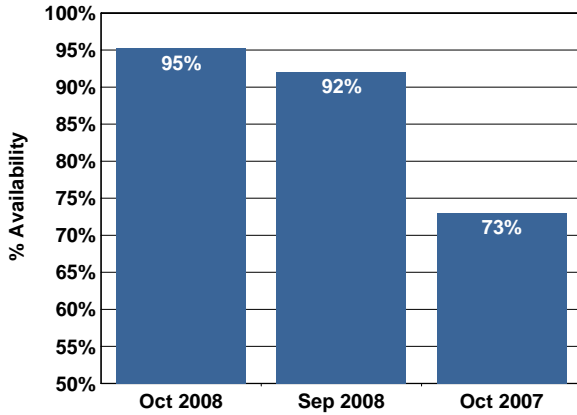
Compiled by:

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DMS Availability



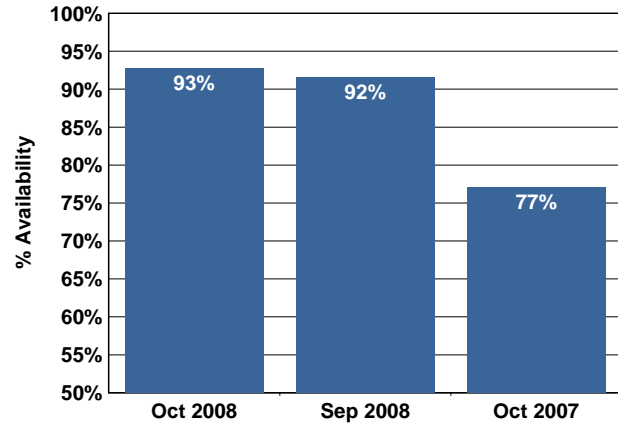
	Oct 2008	Sep 2008	Oct 2007
Available	60	58	46
Not Available	3	5	17
Total	63	63	63



CCTV Camera Availability



	Oct 2008	Sep 2008	Oct 2007
Available	154	152	128
Not Available	12	14	38
Total	166	166	166



Equipment Upgrades



Equipment Type	Maintenance Activity
CCTV	
M-39 @ Ford	Replaced camera with single dome camera
I-696 @ Mound	Replaced camera with single dome camera
I-96 @ Merriman	Replaced camera with single dome camera
I-96 @ I-96/I-275	Replaced camera with single dome camera
I-75 @ Westminster	Replaced camera with single dome camera
I-275 @ Eureka	Replaced camera with single dome camera
I-96 @ Martin Luther King	Replaced camera with single dome camera
I-275 @ I-96/I-275	Replaced camera with single dome camera
I-696 @ I-696/I-275/I-96	Replaced camera with single dome camera
TOTAL	9
DMS	
Eastbound I-94 @ Second	Complete Communications Overhaul
TOTAL	1

